U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: December 27, 2004

Subject: Barry Bronze Bearing Inc.
Camden, Camden County, New Jersey
Removal Action: RV2

From: Mark P. Pane, OSC
Removal Action Branch

To:

R. Salkie, EPA	D. Karlen, EPA
G. Zachos, EPA	C. Turner, City of Camden
J. Rotola, EPA	J. Smolenski, NJDEP
M. Mears, EPA	P. Zammit, EPA
T. Grier, 5202G	A. Block, ATSDR
J. Fajardo, EPA	RST

POLREP NO. : 4 [12/04/04 - 12/17/04] RV2

II. BACKGROUND

Site No:	UX
CERCLIS No:	NJC200400018
Response Authority:	CERCLA
NPL Status:	Not Listed or proposed
ROD Signed:	Not applicable
State Notification:	NJDEP Notified
Start Date:	October 12, 2004
Completion Date:	Ongoing
Status of Action Memorandum:	Signed on September 16, 2004
Delivery Order Number:	EP-W-04-054-02

III. SITE INFORMATION

I The Barry Bronze Bearing (BBB) Company Site is located at 2204 South 7th Street, Camden, New Jersey 08104. The Site is approximately 0.6 acres in size and contains a 19,000 ft^2 industrial building which occupies approximately 80% of the property. The balance of the property is paved and was utilized for parking. The Site is accessed from 7th Street along its western boundary which is a residential setting with a church located at the corner. South of the Site are additional residences located on Florence Street. Adjacent to the Site to the East is a large warehouse complex operated by the City of

Camden's Department of Education, and to the north lies Bulson Street and an active railroad. Bulson Street is an un-paved City Street. North of Bulson Street is a 5 acre parcel of land owned by the City of Camden that is currently being developed for low income residential housing. A new housing development is located to the north-west of the Site.

BBB operated at this location from 1928 until operations were terminated in August, 1997. They manufactured a variety of metal castings which were made of different alloys. Spent foundry sands from the casting process were dumped behind the building along Bulson Street as road fill.

Approximately 150 soil samples in all were collected along Bulson Street as part of the RSE. The results of the sampling indicate that lead contaminated soil in proximity to the BBB building along Bulson Street exists in significant concentrations and then diminishes eastward away from the building. The average concentration for lead in proximity to the BBB building was 3,058 ppm. Concentrations east of the BBB building averaged only 539 ppm. TCLP analysis of soil in proximity to the BBB building yielded results as high as 287 mg/l of lead. The lead contamination existing at the surface of the street, the uncontrolled access through this area by local residents and the fact that an active rail road line bisects this area pose a significant threat requiring mitigation.

IV. RESPONSE INFORMATION

A. Planned Response Actions

The planned scope of work for this action is to excavate and dispose of lead contaminated soil which exists along the surface of Bulson Street. The excavation will be based on data obtained during the RSE and also limited in depth to satisfy the safety requirements of the buried utilities (gas, electric and fiber optic) which underlie the area as well the proximity to the active rail line which bisects Bulson Street.

B. Situation

1. Current situation

During this period the ERRS crew completed all soil excavation and disposal activities. Approximately 176 tons of lead contaminated soil was shipped off site via 8 truck loads this period. The total estimated amount of soil disposed of to date is 638 tons. ERRS also disposed of approximately 120 cubic yards of non hazardous debris from the excavation area. ERRS completed all final grading. RST collected and analyzed 35 post excavation samples utilizing the XRF. Backfilling activities also began this period with

approximately 550 tons of stone being imported this period.

2. **Response activities to date**: **December 4 through 17, 2004**

The excavation area has been divided into 9 grids, 6 south of the train tracks and the remaining 3 are north of the train tracks. The excavation depth ranges from12 to 18 inches deep and span roughly 335 feet east of 7th Street on both the north and south sides of the train tracks which bisect Bulson Street. An additional grid was added which is denoted as Grid A4. This raises the total number of grids to 10. Grid A4 spans from the eastern edge of grids A3 and B3 to 8th Street. Please see attached diagram for reference.

On December 6, 2004, ERRS completed removal of debris and fencing in Grids C1, C2 and C3. Temporary chain link fence was installed north of the embankment to maintain security of the adjacent housing property. The embankment was graded and sloped to provide positive drainage. Soil generated by these activities were transferred to Grid A4 for disposal.

On December 7, 2004, heavy rain caused flooding of the Site. Pumps were mobilized and the surface water was collected and pumped to the local sewer catch basin on the south side of the tracks.

On December 9,13, and 14, 2004, ERRS loaded and shipped off site, 4 loads of non hazardous debris. Each load was shipped via a 30 yard roll off box.

On December 14 and 15, 2004, ERRS loaded and shipped 8 truck loads of lead contaminated soil for off site disposal. Approximately 176 tons was shipped this period, raising the total amount of soil shipped to date to 638 tons.

On December 15 and 16, 2004, RST collected and analyzed 35 post excavation samples collected from the work areas. The samples were analyzed using the Niton XRF. Results indicated that the average lead concentration from each grid was below 500 ppm.

On December 15, 16 and 17, 2004, ERRS received and spread 24 loads of stone, approximately 550 tons, along Bulson Street. The stone was placed over filter fabric which had been installed in each of the excavated areas. The stone was graded to provide drainage from 8th to 7th Streets.

Air monitoring was conducted on days in which excavation and soil load

out occurred to evaluate the impact of field activities on local air quality. Two downwind and one upwind location were selected and each was equipped with a dataRam 4000 and an SKC pump. The dataRams are used to monitor the real time particle concentration of any airborne particulate matter as well as mean particle size, temperature and relative humidity data. The SKC pumps collect air samples on filter paper which can be analyzed should any elevated particulates be detected with the data rams. Any analysis of the filter paper would include testing for lead which is the primary contaminant of concern in the soil. During this period, no air quality issues were observed.

Armed, off hours security was maintained on site during the break and all non-working hours. No incidents were reported this period.

3. Enforcement

The owner of the BBB facility has been very cooperative with EPA. Formal access to conduct an RSE on the property was granted on March 23, 2004. On October 26, 2004, EPA issued a Notice of Potential Liability and Request for Information to the owner. The owner has stated that he is financially incapable of performing the planned mitigation actions. A decision to pursue the BBB owner or other potential PRPs for cost recovery actions is being evaluated by EPA.

C. Next Steps

Final grading and backfilling will be completed. Installation of fencing along the northern boundary of Bulson Street will be completed. A drainage basin connecting to the existing sewer system will be installed on the north side of the tracks. The Site will be demobilized by December 31, 2004. Planting of vegetation along the embankment will be scheduled in the Spring of 2005.

D. Key Issues

All field activities must proceed very cautiously due to the presence of buried gas, electric, sewer and fiber optic lines. An overhead power line along the south side of Bulson Street also exists. In addition, the access agreement with Conrail precludes staging any material within 15 feet of the center line of the track. A Conrail flagman must also be used each day excavation activities occurs. Activity must stop while trains pass by the Site which occurs usually twice daily. Conrail flagmen are not always available and on days when they are not, field activities can not take place normally. Each of these factors serve to impede the pace at which field activities can occur.

Armed security guards are also necessary to safeguard the Site during off hours.

V. COST INFORMATION for RV2 only (As of, December 17, 2004)[1]

	Current Budget [2]	Cost to Date[3]	Amount Remaining
ERRS	$300,000	$244,131	$55,869
RST	$75,000	$22,650	$52,350
EPA	$100,000	$31,000	$69,000
CONTINGENCY	$92,000	$0	$92,000
TOTAL	$567,000	$297,781	$269,219

1. The cost accounting documented above is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2. ERRS funding for this action was approved under procurement request with DCN# HE-0305, dated September 27, 2004, in the amount of $300,000. RST, EPA and contingency budgets provided as part of action memo dated September 16, 2004.

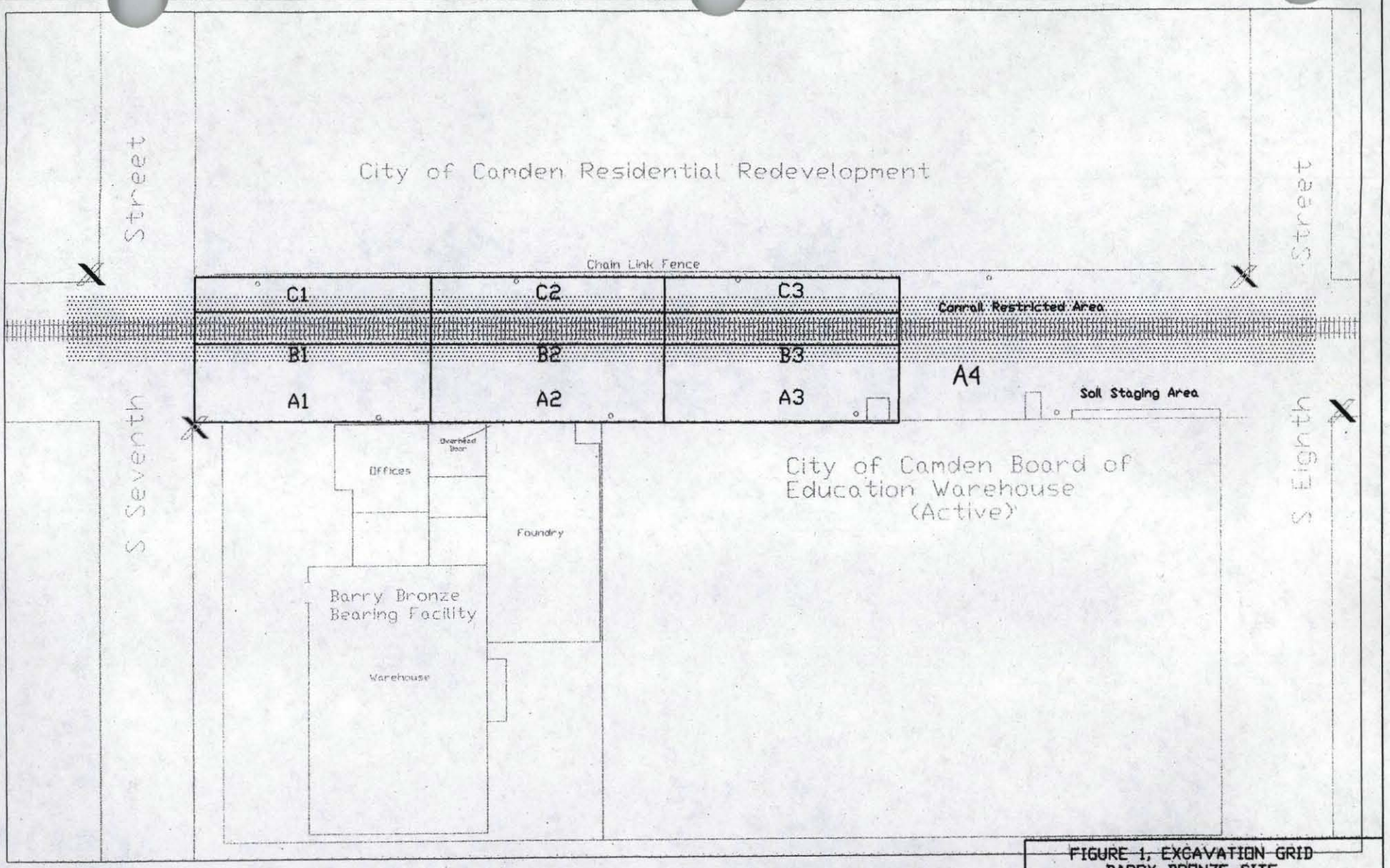
3. RST cost based on loaded estimated hourly rate of $72/hour. EPA cost based on loaded estimated hourly rate of $100/hour. ERRS cost are reported directly from corresponding 1900-55.

VI. DISPOSITION OF WASTES (During this Reporting Period)

Type of Waste	Quantity (Estimated)	Disposal Facility	Treatment	Shipment Date	Manifest Numbers
Soil (Lead Contaminated) D008 Waste	154 tons	Republic Environmental Systems	Stabilization and Landfill	12/14/04	058016 thru 058022 (7 loads)
Soil (Lead Contaminated) D008 Waste	22 tons	Republic Environmental Systems	Stabilization and Landfill	12/01/04	058046 (1 load)
Debris (Non - haz)	90 yd3	South Jersey Sanitation, Pennsauken Landfill	Landfill	12/09/04 (2 loads) & 12/13/04 (1 load)	N/A

Vegetation (Non-haz)	**30 yd3**	**Winzinger Recycle**	**Recycle (into wood chips)**	**12/14/04**	**N/A**

1. Republic Environmental Systems, Hatfield, PA. EPA ID# PAD085690592.
2. Pennsauken Landfill, 9600 River Road, Pennsauken, NJ 08110
3. Winzinger Recycling, 1704 Maine Highway, Hainesport, NJ 08036



GRAPHIC SCALE
30 0 30 60 FEET
1 " = 60'

Weston Solutions, Inc.
Federal Programs Division

IN ASSOCIATION WITH
INNOVATIVE TECHNOLOGICAL SOLUTIONS, INC.,
SCIENTIFIC AND ENVIRONMENTAL ASSOCIATES, INC.,
AND TERRANEARPPMC TECHNOLOGIES GROUP

DATE MODIFIED 11-15-04

FIGURE 1, EXCAVATION GRID
BARRY BRONZE SITE
2204 SOUTH SEVENTH ST
CAMDEN, NEW JERSEY

US ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM
CONTRACT # 68-W-00-113

DRAWN BY: T. KISH
EPA OSC: MARK PANE
RST SPM: T. KISH
FILENAME: BARRY REMOVAL GRID.DWG